

CLAIMS

We claim:

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1 1. A method for operating a wireless communication device having a
2 display screen and a user interface, comprising:
3 automatically finding one or more contact identifiers belonging to
4 predetermined classes within a message entity; and
5 displaying on the display screen of the wireless communications device
6 descriptive information relating to the found contact identifiers.

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1 2. A method as recited in claim 1, wherein the message entity is
2 comprised of the headers and content of a text based message.

1 3. A method as recited in claim 2, wherein the text-based message is
2 stored on the wireless communication device.

Sub 91

1 4. A method as recited in claim 2, wherein the text-based message is
2 being processed by the wireless communication device.

1 5. A method as recited in claim 1, wherein the message entity is a
2 markup language file.

1 6. A method as recited in claim 5, wherein the markup language file
2 is selected from the group consisting of Handheld Device Markup Language
3 (HDML), Wireless Markup Language (WML), Hypertext Markup Language

4 (HTML), Compact Hypertext Markup Language (cHTML), and Extensible
5 Markup Language (XML).

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1 7. A method as recited in claim 1, wherein the predetermined classes
2 of contact identifiers are selected from a group consisting of electronic mail
3 contact identifiers, Uniform Resource Indicators (URIs), phone number contact
4 identifiers, facsimile number contact identifiers, pager number contact identifiers,
5 SMS contact identifiers and user specified contact identifiers.

1 8. A method as recited in claim 7, wherein the user specified contact
2 identifiers are field entries in a file stored in association with a unique identifier
3 for the user of the wireless communication device.

1 9. A method as recited in claim 8, wherein the file stored in
2 association with a unique identifier for the user of the wireless communication
3 device is selected from a group consisting of an address book, a calendar and a
4 contact list.

1 10. A method as recited in claim 8, wherein the user specified contact
2 identifiers are field entries in a database stored on a remote server device.

1 11. A method as recited in claim 10, wherein the database stored on
2 the remote server device is a public commercial database.

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1 **12.** A method as recited in claim 1, wherein the descriptive
2 information relating to found contact identifiers includes a symbolic information
3 indicator.

1 **13.** A method as recited in claim 12, wherein the symbolic information
2 indicator is an icon.

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1 **14.** A method as recited in claim 1, further comprising:
2 associating a found contact identifier with one of a plurality of
3 communication services accessible through the wireless
4 communication device; and
5 utilizing the found contact identifier to setup a communication link for the
6 associated communication service accessible through the wireless
7 communication device.

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1 **15.** A method as recited in claim 14, wherein the communication
2 services accessible through the wireless communication device are selected from
3 a group consisting of electronic mail services, facsimile services, short message
4 services, paging services, file retrieval services and phone services.

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1 **16.** A method as recited in claim 1, further comprising:
2 identifying resources containing found contact identifiers; and
3 retrieving the identified resources.

1 17. A method as recited in claim 1, wherein the wireless
2 communication device incorporates a microprocessor and storage area for
3 program code.

1 18. A method as recited in claim 17, wherein the microprocessor
2 utilizes the program stored in the storage area to control a phone function and a
3 local application.

1 19. A method as recited in claim 18, wherein the local application is
2 an address book application.

1 20. A method as recited in claim 18, wherein the local application is a
2 calendar application.

1 21. A method as recited in claim 18, wherein the local application is a
2 contact list.

1 22. A method as recited in claim 1, wherein the wireless
2 communication device is selected from a group consisting of a mobile phone, a
3 personal digital assistant, and a two-way pager.

53
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1 **23.** A computer readable medium on which is encoded computer
2 program code for providing a display on the display screen of a wireless
3 communication device, comprising:
4 computer program code for finding contact identifiers belonging to
5 predetermined classes within a message entity; and
6 computer program code for generating a screen display presentation
7 relating to the found contact identifiers belonging to pre-determined
8 classes.

1 **24.** A computer readable medium as described in claim **23**, further
2 comprising:
3 computer program code for displaying symbolic identifiers relating to the
4 function of found contact identifiers belonging to predetermined
5 classes.

1 **25.** A computer readable medium as described in claim **23**, wherein
2 the message entity is comprised of the headers and content associated with a
3 designated message.

1 **26.** A computer readable medium as described in claim **23**, wherein
2 the message entity is a markup language file.

1 **27.** A computer readable medium as described in claim **26**, wherein
2 the markup language file is selected from a the group consisting of Handheld
3 Device Markup Language (HDML), Wireless Markup Language (WML),
4 Hypertext Markup Language (HTML), Compact Hypertext Markup Language
5 (cHTML), and Extensible Markup Language (XML).

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1 **28.** A computer readable medium as described in claim 23, wherein
2 the predetermined classes of contact identifiers are selected from the group
3 consisting of email contact identifiers, Uniform Resource Indicators (URIs),
4 phone number contact identifiers, facsimile number contact identifiers, pager
5 number contact identifiers, SMS contact identifiers and user specified contact
6 identifiers.

1 **29.** A computer readable medium as described in claim 28, wherein
2 the user specified contact identifiers are field entries in a file stored in association
3 with a unique identifier for the user of the wireless communication device.

1 **30.** A computer readable medium as described in claim 29, wherein
2 the file stored in association with a unique identifier for the user of the wireless
3 communication device is selected from a group consisting of an address book, a
4 calendar and a contact list.

1 **31.** A computer readable medium as described in claim 28, wherein
2 the user specified contact identifiers are field entries in a database stored on a
3 remote server device.

1 **32.** A computer readable medium as described in claim 31, wherein
2 the database stored on the remote server device is a public commercial database.

1 **33.** A computer readable medium as described in claim 28, wherein
2 the screen display presentation includes symbolic information identifiers.

1 **34.** A computer readable medium as described in claim 33, wherein
2 the symbolic identifiers are icons.

1 **35.** A wireless communication device having a display screen and a
2 user interface, comprising:
3 a storage device for storing message entities;
4 a memory for storing program code for a processor; and
5 a processor coupled to the storage device and the memory, wherein the
6 processor operates to execute the program code stored in the memory
7 to find contact identifiers belonging to predetermined classes of
8 contact identifiers in the message entities stored on the storage device
9 and display descriptive information on the display screen relating to
10 the found contact identifiers.

1 **36.** A wireless communication device as described in claim 35,
2 wherein the message entities are comprised of the headers and content associated
3 with designated text based messages.

1 **37.** A wireless communication device as described in claim 30,
2 wherein the text-based messages are markup language files.

1 **38.** A wireless communication device as described in claim 37,
2 wherein the markup language file is selected from a the group consisting of

3 Handheld Device Markup Language (HDML), Wireless Markup Language
4 (WML), Hypertext Markup Language (HTML), Compact Hypertext Markup
5 Language (cHTML), and Extensible Markup Language (XML).

1 39. A wireless communication device as described in claim 35,
2 wherein the predetermined classes of contact identifiers are selected from the
3 group consisting of electronic mail contact identifiers, Uniform Resource
4 Indicators (URIs), phone number contact identifiers, facsimile number contact
5 identifiers, pager number contact identifiers, SMS contact identifiers and user
6 specified contact identifiers.

1 40. A wireless communication device as described in claim 39,
2 wherein the user specified contact identifiers are field entries in a file stored in
3 association with a unique identifier for the user of the wireless communication
4 device.

1 41. A wireless communication device as described in claim 40,
2 wherein the file stored in association with a unique identifier for the user of the
3 wireless communication device is selected from a group consisting of an address
4 book, a calendar and a contact list.

1 42. A wireless communication device as described in claim 40,
2 wherein the user specified contact identifiers are field entries in a database stored
3 on a remote server device.

1 **43.** A wireless communication device as described in claim 42,
2 wherein the database stored on the remote server device is a public commercial
3 database.

1 **44.** A wireless communication device as described in claim 35,
2 wherein the descriptive information relating to found contact identifiers includes a
3 symbolic information indicator.

1 **45.** A wireless communication device as described in claim 44,
2 wherein the symbolic information indicator is an icon.

1 **46.** A wireless communication device as described in claim 35, further
2 comprising:
3 program code stored in the memory for associating found contact
4 identifiers with communication services accessible through the
5 wireless communication device; and
6 program code stored in the memory for utilizing found contact identifiers
7 to setup communication links for communication services accessible
8 through the wireless communication device.